Kruchtwick, 6.4

AUTHOR:

KRUCHKOVICH, G.I.

20-5-3/54

TITLE:

On Semireducible Riemannian Spaces (O poluprivodimykh

rimanovykh prostranstvakh)

PERIODICAL: Doklady Akad. Hauk SSSR

,1957, Vol. 115, Nr. 5, pp. 862-865 (USSE)

ABSTRACT:

A Riemannian space V_n is called semireducible if there exists a coordinate system in which its metric is described by

(1) $ds^2 = ds_0^2 + 6ds_1^2 = g_{ij}(x^k)dx^idx^j + 6(x^k)a_{\alpha\beta}(x^i)dx^{\alpha}dx^{\beta}$

 $(i,j,k=1,...,q; \ \alpha,\beta,\gamma=q+1,...,n).$

Theorem: In order that V is semireducible it is necessary and sufficient that it fibres into two families of q- and (n-q)dimensional surfaces orthogonal to eachother, where one family consists of completely geodesic surfaces while the surfaces of the second family are similar with eachother and they are composed by umbilical points.

Theorem: In order that V is semireducible it is necessary and sufficient that there exists a symmetrical tensor A being not

CARD 1/2

proportional to the measure tensor and which satisfies the

On Semireducible Riemannian Spaces

20-5-3/54

conditions

1)
$$A_{ab,c} = -\frac{1}{2} (u_a A_{bc} + u_b A_{ac}),$$
 2) $A_{ac} A_b^c = A_{ab},$

where u is a certain gradient. Two further theorems relate to the uniqueness of the representation of the measure tensor of a properly Rismannian space in the form (1). It is stated that for a non-onedimensional ds² the uniqueness is lossed only in some simple special cases.

ASSOCIATION: Moscow Power Engineering Inst. (Moskovskiy energeticheskiy institut)

PRESENTED: By P. S. Aleksandrov, Academician, March 16, 1957

SUBMITTED: March 15, 1957 AVAILABLE: Library of Congress

Card 2/2

KRUCHKOYICH, C.I.

Motions in subprojective spaces of V.F. Kagan. Nauch. dokl. vys. skoly; fix.-mat. nauki no.1:43-47 '58. (MIRA 12:3)

1. Moskovskiy energeticheskiy institut. (Spaces, Generalized)

Kruchkovich, G.I. and Ku Ch'ao Hao (Moscow) SOV/20-120-6-4/59 AUTHOR: A Criterion for the Semireducibility of Homogeneous TITLE: Riemannian Spaces (Priznak poluprovodimosti odnorodnykh rimanovykh prostranstv) Doklady Akademy nauk SSSR, 1958, Vol 120, Nr 6, pp 1183-1186(USSR) PERIODICAL: Let V_n be a proper Riemannian (ds²>0) homogeneous space with ABSTRACT: a continuous group of motion $G_{\mathbf{r}}$ and a stationary subgroup H_{\bullet} Let the group H be decomposed into a direct product of two subgroups. One of these subgroups may be arbitrary, the second

one is assumed to be irreducible and to possess the following property: If the plane on which it is defined in the Euclidean tangential space of the given point is of even dimension, then the subgroup possesses no mutually commutating rotations. Under these assumptions V is semireducible, i.e. it is decomposed into orthogonal surfaces $V_{\mathbf{q}}$ and $V_{\mathbf{n-q}}$ of special kind (see [Ref 2]). In a special coordinate system the metric of the V_n

then has the form

 $ds^{2} = g_{i,j}(x^{k})dx^{i}dx^{j} + \sigma(x^{k})a_{k,\beta}(x^{k})dx^{k}dx^{\beta}$ (1) Ca.d 1/2

A Criterion for the Semireducibility of Homogeneous SOV/20-120-6-4/59 Riemannian Spaces

In the case $H = H_0 \times H_1 \dots \times H_p$ a generalization is obtained, where H_0 arbitrary, and H_t , t>0, possess the property mentioned above. Then V_n is p-times semireducible, i.e. in a certain system it is

(2)
$$ds^2 = ds_0^2(x^1) + 6_1(x^1)ds_1^2(x^1) + ... + 6_p(x^1)ds_p^2(x^p)$$

In both cases the group G_r is non-mixing with respect to (1) and (2) respectively (see [Ref 3]).

There are 4 references, 2 of which are Soviet, 7 Japanese, and 1 Roumanian.

ASSOCIATION: Moskovskiy gosudaratvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

PRESENTED: February 15, 1958, by P.S. Aleksandrov, Academicish SUBMITTED: February 13, 1958

1. Topology 2. Mathematics

Card 2/2

16(1) AUTHORS:

SOV/140-59-3-14/22 Kruchkovich, G.I., and Solodovnikov, A.S.

TITLE:

Constant Symmetrical Tensors in Riemannian Spaces

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 3,

pp 147-158 (USSR)

ABSTRACT:

Absolutely parallel tensors are called constant tensors. The authors investigate Riemannian spaces in which there exist constant symmetrical tensors A_{ij}: A_{ij,k}= 0, A_{ij}= A_{ji}, A_{ij} A_{g_{ij}}.

14 theorems are formulated and proved, e.g.:

Theorem: If an irreducible Riemannian space admits constant symmetrical tensors Aij (Agij), then among them there exists

at least one tensor the square of which either is equal to zero or it distinguishes from the measure tensor only by the sign. Theorem: In order that an irreducible Vn admits constant Aij $(\not\uparrow \lambda g_{i,j})$ it is necessary and sufficient that V_n belongs to one of the following classes: 1) V_n is a Riemannian extension of a Riemannian space V_r, 2r (n; 2) V_n is defined by the real part or

the imaginary part of the complex metric

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Constant Symmetrical Tensors in Riemannian Spaces

SOV/140-59-3-14/22

the order $m = \frac{n}{2}$.

The authors mention P.A.Shirokov, and A.P.Shirokov. They thank

P.K.Rashevskiy, whose seminar inspired this reports.

There are 12 references, 6 of which are Soviet, 2 American, and 4 English.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: June 7, 1958

Card 2/2

s/020/133/60/006/020/031XX C 111/ C 333

16.5600

AUTHOR: Kruchkovich, G. L.

TITLE: On Riemannian Spaces With a Sufficiently Large Group of

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6, pp. 1283-1286

TEXT: Let the Riemannian space V_n have a positive-definite metric ds^2 .

Theorem 1: If a non-Einsteinian V admits the transitive group of Theorem 1: 11 a non-print notions G with the dimension $\frac{(n-2)(n-3)}{n} + 6$,

then it belongs to one of the following types:

1.) V is of constant curvature,

2.) $V_{n} = V_{1} \times V_{n-1}$, where V_{n-1} is of constant curvature $K \neq 0$, $r = \frac{n(n-1)}{2} + 1.$

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S/020/100/60/006/020/031XX C 111/ C 333

On Riemannian Spaces With a Sufficiently Large Group of Motions

3.)
$$V_n = V_2 \times V_{n-2}$$
, where V_2 , V_{n-2} is of constant curvature,
$$r = \frac{(n-1)(n-2)}{2} + 3.$$

4.) V_n has the metric

4.)
$$V_n$$
 has the metric

(5) $(dx)^2 = (dx^1)^2 + e^{2bx^1} (dx^2)^2 + e^{2ax^1} ((dx^3)^2 + ... + (dx^n)^2)$,

 $a \neq 0$, $b \neq 0$ $a \neq b$ $r = \frac{(n-1)(n-2)}{2} + 2$.

Theorem 2: Every Riemannian space V which admits a transitive group of motions with the dimension

$$r > \frac{(n-2)(n-3)}{2} + 8$$
 $(n > 6, \neq 8),$

belongs to one of the types of theorem !.

Theorem 3: If V_n admits a non-transitive group of motions of the

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86371 S/020/133/60/006/020/031XX C 111/ C 333

On Riemannian Spaces With a Sufficiently Large Group of Motions

dimension $r > \frac{(n-2)(n-3)}{2} + 6$ (n > 4) then it belongs to one of the following types

- 1.) V_n is subprojective $r = \frac{n(n-1)}{2}$, the orbits of the group are V_{n-1} .
- 2.) V_n has the metric
- (6) $(ds)^2 = (dx^1)^2 + \varphi(x^1)(dx^2)^2 + 6(x^1) ds_1^2 (x^3,...,x^n)$, where ds_1^2 has a constant curvature $r = \frac{(n-1)(n-2)}{2} + 1$ and the orbits of the group are the V_{n-1} .
- 3.) V_n has the metric
- (4) $ds^2 = ds_0^2(x^1, x^2) + 6'(x^1, x^2) ds_1^2(x^3, ..., x^n)$

where ds, 2 has a constant curvature $r = \frac{(n-1)(n-2)}{2}$ and the orbits of the group are the V_{n-2} .

Card 3/5

S/020/133/60/006/020/031XX C 111/ C 333

On Riemannian Spaces With a Sufficiently Large Group of Motions

Theorem 4: Every Riemannian space which admits a transitive or intransitive group of motions G of the dimension

$$r > \frac{(n-2)(n-3)}{2} + 8 (n \neq 6,8)$$

is semireducible.

Theorem 5: A Riemannian space V admits no complete group of motions G_r , the dimension of which satisfies one of the inequalities.

1.)
$$\frac{n(n-1)}{2} + 1 < r < \frac{n(n+1)}{2}$$
 $(n \neq 4)$

1.)
$$\frac{n(n-1)}{2} + 1 < r < \frac{n(n+1)}{2}$$
 $(n \neq 4)$
2.) $\frac{(n-1)(n-2)}{2} + 3 < r < \frac{n(n-1)}{2}$ $(n \neq 6, 8)$

3.)
$$\frac{(n-2)(n-3)}{2} + 8 < r < \frac{(n-1)(n-2)}{2}$$

Card 4/5

86371 s/020/133/60/006/020/031XX -C 111/ C 333

On Riemannian Spaces With a Sufficiently Large Group of Motions

Gu Chao-Khao is mentioned in the paper.

There are 13 references: 4 Soviet, 3 Japanese, 2 Roumanian, 2 American, 1 English and 1 Italian.

ASSOCIATION: Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Power Engineering Institute)

PRESENTED: April 13, 1960 by J. G. Petrovskiy, Academician SUBMITTED: April 7, 1960

X

Card 5/5

One class of Riemann spaces. Trudy Sen.po vekt.i tenz.anal. no.11:103-128 '61. (MIRA 15:3) (Spaces, Generalized) (Distance geometry)

KRUCHKOVICH, G.I.

Theory of V(K) Riemann spaces. Sib. mat. zhur. 2 no.3:400-413 My-Je '61. (MIRA 14:7) (Spaces, Generalized)

KRUCHKOVICH, G.I.

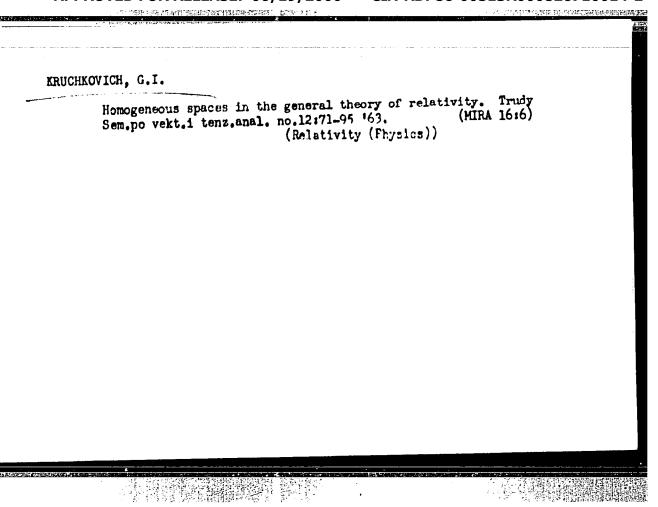
Uniqueness of a minimal semireducible expansion. Dokl. AN SSSR 146 no.5:999-1002 0 162. (MIRA 15:10)

1. Vsesoyuznyy zaochnyy energeticheskiy institut. Predstavleno akademikom I.N.Vekua. (Distance geometry)

Ł

DYUHYUK, Petr Yevgen'yevich; KRUCHKOVICH, G.I.; GLACOLEVA, N.N.; CUTARINA, N.I.; PANFILOVA, I.A.; RIMSKIY-KORSAKOV, B.S.; SENKEVICH-PURSHTEYN, R.S.; SULEYMANOVA, Kh.R.; CHEGIS, I.A.; SELIVERSTOVA, A.I., red.; GOROKHOVA, S.S., tekhn.red.

[Problems for a higher mathematics course in technical schools of higher education] Sbornik zadach po kursu vysshei matematiki dlia vtuzov. [By] P.E.Diubiuk i dr. Moskva, Vysshaia shkola, 1963. 661 p. (MIRA 17:1)



KRUCHKOVICH, G.I.

Geodesic correspondence of semireducible Riemann spaces. Dokl.
AN SSSR 152 no.1:43-45 S '63. (MIRA 16:9)

1. Vsesoyuznyy zaochnyy energeticheskiy institut. Predstavleno akademikom I.G.Petrovskim.

(Spaces, Generalized)

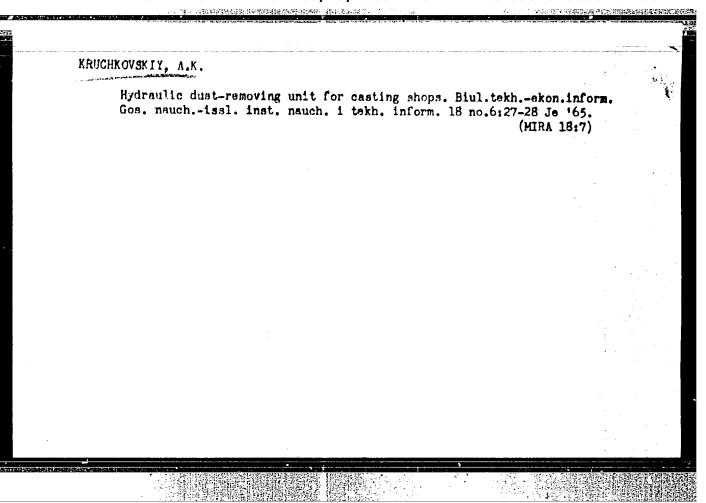
DYUBYUK, P.Ye.; KRUCHKOVICH, G.I.; GLAGOLEVA, N.N.; GUTARINA, N.I.; FANFILOVA, I.A.; RIMSKIY-KORSAKOV, B.S.; SENKEVICH, R.L.; SULEYMANOVA, Kh.R.; CHEGIS, I.A.; GEYDEL'MAN, R.M., prof., retsenzent; SELIVERSTOVA, A.I., red.

[Problems for a course in higher mathematics] Sbornik zadach po kursu vysshei matematiki. Moskva, Vysshaia shkola, 1965. 590 p. (MIRA 18:8)

ALASHEYEV, I.T.; KRUCHKOVSKIY, A.K.

Power propelled ventilation housings over shakeout grates.
Lit. proisv. no.1:16-17 Ja *62. (MIRA 16:8)

(Foundries-Equipment and supplies)



Distr: 4E3b/hE3d/
hE2c(1)

Preparation of silicon alkyd resins. Vactav Chealovský, and Olffich Krūcina (Chem. indav CSAV, Prague).
Chem. primynly 9, 433-7 (1939).—The critent of breaking of the property of the control of the property of the critical party of the critical factor residence of organosthymacyslemore of organosthymacyslemore of the property of the prop

RATHOUSKY, J.; KRUCHNA, O.; BAZANT, V.

Silicon organic compounds. XIX.Reaction of alkylchlorosilane with arylchlorosilane on solid acid catalysts. Coll Cz Chem 25 no.7: 1807-1814 Jl 160. (EEAI 10:9)

1. Institut fur theoretische Grundlagen der chemischen Technik, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Silicon) (Organic compounds) (Chlorosilane)
(Alkyl groups) (Aryl groups) (Catalysts)

15:1170

Z/009/62/000/009/002/004 E112/E435

AUTHORS:

Rathouský, Jiří, Kruchňa, Oldřich

TITLE:

Preparation of methylsilicone resins

PERIODICAL: Chemický průmysl, no.9, 1962, 513-517

The industrial preparation of silicone resins consists of a controlled hydrolysis of methylchlorosilanes. In the case of methyltrichlorosilane, cross-linked insoluble products with limited technological applications are obtained. Polymers with improved properties (linear, and soluble in organic solvents) can be prepared if the ratio CH3: Si > 1, which may be achieved by hydrolysing a mixture of methyltrichlorosilane with dimethyl-Hydrolysis is carried out by the action of water dichlorosilane. Experiments to on a toluene solution of the chlorosilanes. prevent the formation of gels during hydrolysis are described. Best results were achieved with butanol which displayed the additional advantage of preventing the formation of emulsions. The effects of temperature, butanol, water and toluene concentrations on the rate of hydrolysis and gel-formation were Required minimum quantities of butanol for compositions of varying CH3: Si ratios, expressed in % of Card 1/3

Z/009/62/000/009/002/004 E112/E435

Preparation of methylsilicone resins

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methylchlorosilanes, were: CH3: Si = 1 - 45% butanol; CH3: Si = 1.2 - 35% butanol; CH3: Si = 1.4 - 20% butanol; Temperature effects on gel formation $CH_3 : Si = 1.6 - 5\%$ butanol. were insignificant and so was the concentration of toluene. when the concentration of the latter was reduced to 1/4 of the The reduction of toluene original amount did gel formation occur. concentration can be counteracted by increasing the concentration As the hardening temperatures of silicone resins of butanol. with a CH3: Si - ratio above 1.3 are comparatively high, precondensation is indicated. An alcoholic solution of KOH was investigated and the effects of Si:K and CH3:Si ratios on The pot-life of different types hardening times were determined. of methylsilicone resins was followed for a period of 2 to 8 months and it was established that compositions which were not precondensed were stable for that period of time. For the precondensed types, the stability was determined by the degree of precondensation. A silicone resin with a ratio CH3:Si = 1 prepared by the addition of butanol (C4H9OH: Si = 1.5) gave, on hardening, a tough and strong film, characterized by good adhesion to aluminium and good thermal stability. It proved also Card 2/3

Preparation of methylsilicone resins

Z/009/62/000/009/002/004 E112/E435

an excellent hydrophobic agent for building materials, ceramics, paper and textiles. Its properties were superior to methylsilicone resins with higher CH3:Si ratios but prepared without There are 4 figures and 2 tables. butanol.

ASSOCIATION: Ústav teoretických základů chemické techniky ČSAV, Praha (Institute for Theoretical Chemical

Technology CSAV, Prague)

1:

SUBMITTED:

May 17, 1962

Card 3/3

RATHOUSKY, Jiri; KRUCHNA, Oldrich

Preparation of methyl silicone varnishes. Chem prum 12 no.9:513-517 S '62.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska akademie ved, Praha.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

RATHOUSKY, Jiri; SETINEK, Karel; KRUCHNA, Oldrigh; BAZANT, Vladimir

Basic principles of terephthalic acid isolation from potassium terephthalate. Chem prum 13 no.4:170-173 Ap '63.

1. Ustav teoretickych zakladu chemicke tedhniky, Cèskoslovenska akademie ved, Praha.

RATHOUSKY, Jiri; KRUCHNA, Oldrich; SETI.EX, Karel; BAZANT, Vladimir; SILADI, J.

Practical problems of terephthalic acid isolation from the rearrangement product of potassium phthalate to potassium terephthalate. Chem prum 13 no.6:295-299 Je *63.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska akademie ved, Praha (for all, except Siladi).
2. Spolek pro chemickou a hutni vyrobu, Usti nad Labem (for Siladi).

harhousky, Jiri; Sarinek, Karei; KRUCHNA, Ordrich; B.ZANT, Windimir

Kinetics of the formation of terupathalic acid by the reaction of potassium by rogen terephthalate with phthalic anhydride in aqueous medium. Great prum 14 no.5:225-229 My 164.

1. Institute of Theoretical Principles of Chemical Technology, Czechoslovak Academy of Sciences, Prague.

RATHOUSKY, J.; KRUCHNA, O.; BAMANI, V.

Organosilicon compounds. Pt. 36. Coll Gz chem 29 no.7:1633-1642 Jl '64.

1. Institut für theoretische Grundlagen der chemischen Technik, Tschenchoslowakische Adademie der Missenschaften, Frague.

RATHOUSKY, J.; KRUCHNA, O.; BAZANT, V.

Organosilicon compounds. Pt.38, Coll Cz Chem 30 no.3:862-872 Mr '65.

1. Institut für theoretische Grundlagen der chemischen Technik, Tschechoslowakische Akademie der Wissenschaften, Prague. Submitted June 30, 1964.

KRUCICANIN. S.

Strain gauges for high temperatures, Pt. 2, p. 396. TENNIKA, Beograd. Vol. 9, No. 3, 1954.

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 5, No. 3, August, 1956.

barran, a.

Atomic jet propulstion. p. 346. VAZHUHOLLOVNI GLADUK. (Jugoslovensko rayno vazduhoplovstvo) Zemin.

Vol. 11, No. 3, May/June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. &, No. 12, December 1955

YUGOSLAVIA / Chemical Technology. Chemical Products H-23 and Their Application. Chemical Processing of Natural Gases and Petroleum. Motor

and Rocket Fuels. Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2565.

Author : Krucicanin, S.

Inst : Not given.

Title : Fuels for Rocket Motors.

Orig Pub: Tehnika, 1957, 12, No 11, 240-248.

100年時時度被開業時候 平均至

Abstract: A review. The characteristics of rocket fuels

(liquid and solid) and oxidants. Factors are examined which influence a selection of the fuel for operating a rocket motor. The possibilities are discussed concerning the application of nuclear

fuel in such a motor. -- M. Pavlovsky.

Card 1/1

66

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

24138 Y/001/60/000/004/001/002 D241/D301

26.3110

AUTHOR: Kručičanin, Slobodan, Docent

TITLE: Approximate correction of the measured thrust for the

silencer effect

PERIODICAL: Tehnika, no. 4, 1960, 739 - 740

TEXT: The object of this brief study is to establish a method of correcting — for the silencer effect — the thrust of turbo-jet and rocket engines, as measured in silenced test installations. However, the addition of a silencer introduced an error into the thrust measurement and a correction was required for this. The test installations are shown diagrammatically in Figs. 1 and 2. The following symbols are used: F = force(kg), V = velocity(m/sec), V = mass flow(kg/sec), V = mass flow

Card 1/5

24138 Y/001/60/000/004/001/002

Approximate correction of ...



et engine, u = inlet plane to engine, f = fuel, o = oxydant. The assumptions underlying the solutions are: (1) at the control volume boundaries the air velocities are uniform, (2) the flow is onedimensional, (3) internal and external friction are negligible, (4) there is no change in the working fluid within the control volume. On (a) turbo-jet engine, from the momentum equation for the control volume, the author arrives at the statement, that the measured thrust is smaller than the true thrust by an amount

$$\mathbf{F} = \mathbf{A}_{\mathbf{c}}(\mathbf{p}_{\mathbf{a}} - \mathbf{p}_{\mathbf{c}}) \tag{6}$$

giving for the true thrust the expression
$$F = F_{meas.} + A_c(p_a - p_c). \tag{8}$$
 As regards (b) the rocket engine, from momentum considerations again

the author arrives at

$$F_{\text{meas}} = \frac{W_R + W_O}{g_O} V_e + A_e (p_e - p_a) - A_c (p_a - p_c).$$
 (12)

The first two terms on the r.h.s. represent the true thrust in free

Card 2/5

21,138 Y/001/60/000/004/001/002 D241/D301

Approximate correction of ...

air, which is, therefore, given by $F = F_{\text{meas}} + A_{c}(p_{a} - p_{c}).$ (14)

There are 2 figures and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: A.H. Shapiro, The Dynamics and Thermodynamics of Compressible Fluid Flow, vol. I, New York, 1953; E.S. Taylor, Textnotes, MIT, Cambridge, U.S.A., 1953; A.H. Shapiro, Textnotes, LIT, Cambridge, U.S.A., 1953.

ASSOCIATION: Mašinskog fakulteta univerziteta u Beogradu (Faculty of Mechanical Engineering, University of Belgrade)

Card 3/5

KRUCINSKI, Marian

Kinetics of melting of the permanent charge in the open-hearth process. Przegl naukowo-tech AGH no.6:1-12 '62.

1. Katedra Metalurgii Stali, Akademia Gorniczo-Hutnicza, Krakow.

OSIKA, Zygmunt, dr inz.; KRUCINSKI, Marian, mgr inz.

Possiblities of reducing the manganese consumption by deoxidizing steel under condensed slag. Mutnik P 30 no. 11: 367-371 N '63.

KRUCOVA, Stanislawa, dr.

Pre-and postnatal consultation in the main antituberculosis center in Warsaw. Gruzlica 22 no.11:830-832 Nov 54. (PRENATAL CARE in Poland, counceling in antituberc. centers) (POSTNATAL CARE in Poland, counceling in antituberc. centers)

KRUCZALOWA, Maria: SCHILLEROWA, Barbara

Evaluation of vaccines and the effectiveness of vaccinations against typhoid fever. III. Selection and preliminary characteristics of vaccines designated for control vaccinations. Przegl. epidem. 17 no.1/2:23-32 163.

1. Z Wytworni Surowic i Szczepionek w Krakowie Dyrektor: dr Z. Moszczenski i z Centralnego Laboratorium Zjednoczenia Wytworni Surowic i Szczepionek w Warszawie Kierownik: prof. dr L. Rzucidlo.

(TYPHOID-PARATYPHOID VACCINES)

PLACHINSKA, Janina; KRUCZALOWA, Maria, asyst. techn. HULNICKA, Helena

图 特性的系统经验证明或规则的现在分词 计对象系统

Use of a function test on mice for the determination of the immunogenic force of various strains of S. typhi and typhoid endotoxin. Przegl. epidem. 16 no.1:13-18 '62.

1. Z zakladu Epidemiologii AM w Warszawie. Kierownik prof. dr F. Przesmycki i z Wytworni Surowic i Szczepionek w Krakowie Doradca naukowy prof. dr Z. Przybyłkiewicz. (TYPHOID immunol) (VACCINES)

JAWOR, E.; KRUCZEK, J.

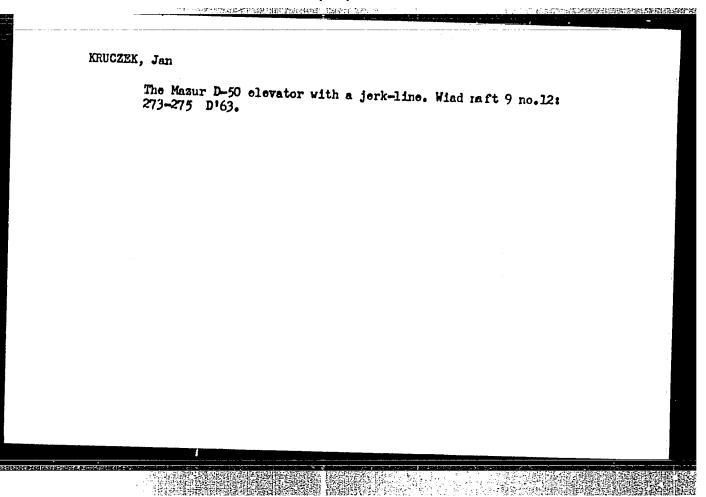
Present state of recognizing the accumulation conditions of crude oil in the Niepolomice Forest region. Viad naft 10 no.2:38-39, 42 F'64.

KRUCZEK, Jan

The FME-12 mobile-drilling mast. Wiad naft 6 no.9:199-201 S 160. (EEAI 10:1) (Poland--Oil well drilling)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

KRUCZEK, Jan The Maxur D-50 extracting crane. Wiad naft 8 no.7:154-157 Jl



KRUCZEK, Jan

Problem of technological progress and rationalization in the Gorlice Petroleum Mining Enterprise in 1963. Wiad naft 10 no.3:63-65 Mr*64

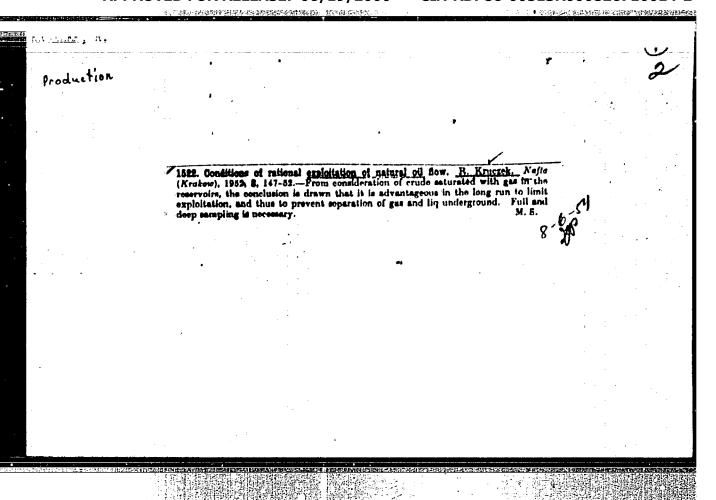
JAWOR, E.; KRUCZEK, Jozef

Present state of identifying the conditions for crude oil accumulation in the Niepolomice Forest region. Wiad naft 10 no.3:57-59 Mr.64

KRUCZEK, Jozef

Petroleum deposits in the Puszcza Niepolomicka region. Wiad maft 11 no.4:73-76 Ap 163.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"



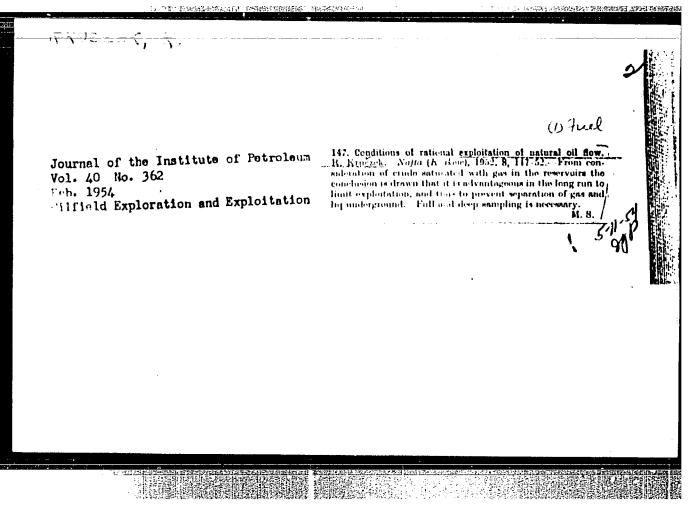
KRUČZEK, R.

"The Principles of the Proper Exploitation of Petroleum Reservoirs by Means of Deep-well Pumps." p. 117 (NAFTA, Vol. 9, No. 5, May 1953) Warszawa

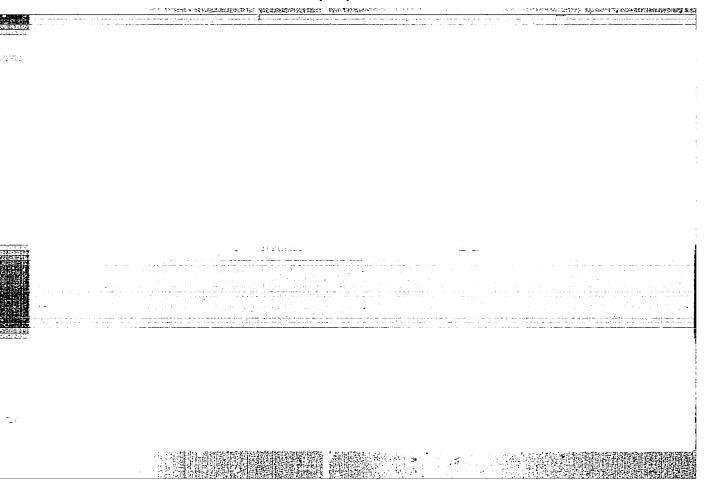
SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10, October 1953. Unclassified.

"APPROVED FOR RELEASE: 06/19/2000

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2

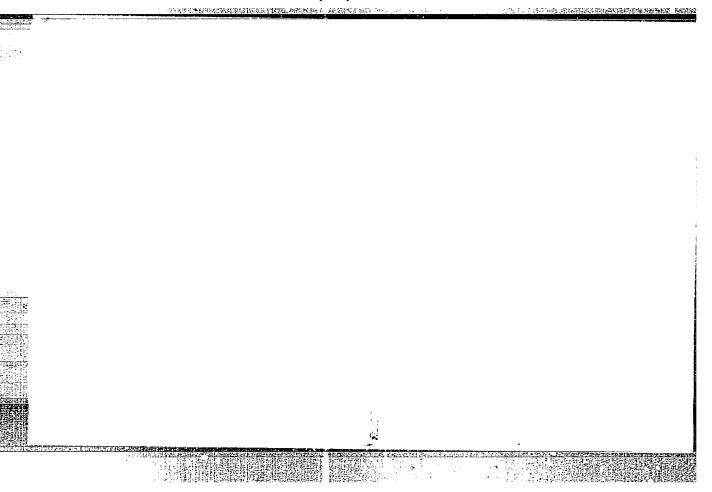


KRUCZEK, R.

The completion of well boring. p. 243. Vol. 10, no. 11, Nev. 1955. Nafta.

SOURCE: East European Accessions List (EEAL), LC. Vol. 5, no. 3, March 1956.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"



KRUCZKOWSKI, Harian, mgr.

The role of the technical laboratory worker in a hospital pharmacy. Farmacja Pol 16 no.24:528-530 D '61.

1. Akademia Medyczna, Gdansk.

+

KRUCZKOWSKI, R.

TECHLOLOGY

PERIODICAL: ODZIEZ, VOL. 10, JAN. 1959.

KRUCKO45KI, R. The Collegium of the Association of the Chothing Industry. Po. 7.

Honthly List of East European Accessions (UTAI) LC Vol. 8, to. 4 Abril 1959, Unclass.

KRUCZFOWSKI, R.; LEFLA, K.

Preliminary remarks on the draft of the plan of the Clothing Industry Union for the years 1959-1965. p. 49.

ODZIEZ. (Centraine Zarzady Przemyslu Dziewiarskiego, Odziezowego i Ponczeszniczego) Lodz, Poland. Vol. 10, no. 2, February 1959

Monthly list of East European Accession (EEAI) LC, Vol. 8, no. 7, July 1959

Uncl.

KRUCZKOWSKI, R.

Interdepartmental Coordination Committee on the Problems of the Clothing Industry. p. 185

ODZIEZ Lodz, Poland Vol. 10, no. 9, Sept. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, no. 2, Feb. 1959 Uncl.

KRUCZYNSKI, JAN.

"Frzecinanie, obrzynanie i przycinanie tarcicy. (Wyd. 1.) Warszawa, Panstwowe Wydawn. Roincize i Lesne, 1955. 72 p. (Sawing, edging, and trimming lumber, 1st ed.)

DA

Not in DLC

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

ACC NR. AP6027981

SOUTICE CODE: CZ/ 24/66/000/CO4/0104/0106

AUTHOR: Nipl, Zdonok (Engineer); Krudenc, Jaroslav (Engineer)

٥٥

ONG: Institute of Geodesy and Cartography, Pardubice (Ustav geodezie a kartografie)

TITIE: Proparation of a sectoral summary of cultural areas in accordance with the data of real estate registers

SOURCE: Geodeticky a kartograficky obzor, no. 4, 1966, 104-106

TOPIC TAGS: punched card, computer, oconomic system

ABSTRACT: Experience in proparation of the summary by means of punched-card machinery is described. Summaries were prepared of all the subtypes of production and of the total values of parcels by kinds. Agricultural cooperatives were classified in groups according to their areas. Processes used in a surveying department and in a computer conter are discussed. Orig. art. has: 2 tables. Based on authors Eng. abst./

SUB CODE: 09, 05 / SUBM DATE: none

Card 1/1 -

UDC: 347.235.11(437)"1965": 518.5

LUKES, R. [deceased]; SROGL, J.; KRUDENC, L.

Splitting of furan derivates by means of hydrochloric acid. Part 2: Reaction of branched furfuryl ketones. Coll Cz Chem 26 no.9:2456-2459 '61.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

(Furan) (Hydrochloric acid) (Ketone)

KRUDCLOY, A.D.

137-58-2-3127

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 128 (USSR)

AUTHOR: Khudoley, A.D.

TITLE: Automatic Resistance Surfacing of Steel by Vibration in a Flow of Electrolyte (Avtomaticheskaya vibrokontaktnaya naplavka stali

v struye elektrolita)

PERIODICAL: Mashinostroitel', 1957, Nr 5, pp 18-20

ABSTRACT: The essence of vibration resistance surfacing (VS) of steel in a flow of electrolyte is described in detail, as is the design

of a universal automatic vibration resistance head, the power feed circuits for pulsed alternating current coming to the head through two model VSG-ZM selenium rectifiers connected in series, and the designation and composition of the electrolyte. VS has been introduced at the Minsk Tractor Plant for rehabilitation of worn lathe spindles and motor rotor shafts, and can be used to face hard alloys and to reinforce tools. A VS head may be mounted on lathes of various types. The following VS pro-

cedures are recommended: For parts of 20-60, 60-100, 100-160, 160 and more mm, the feed by the head is, respect-

Card 1/2 ively, 1.5, 1.5 (sic!), 1.25, and 1.25 (sic!) mm per revolution,

137-58-2-3127

Automatic Resistance Surfacing of Steel by Vibration in a Flow of Electrolyte

and the rate of rotation of part is 3.0, 2.0, 1.5, and 1.0 rpm. VS makes it possible to apply a layer 0.1-0.2 mm in thickness even to heat-treated parts, without causing tempering or distortion thereof. The superiority of VS over gas welding repair and electric arc surfacing is noted.

A.K.

1. Steel--Plating-Equipment 2. Electroplating--Equipment 3. Vibration -- Applications

Card 2/2

KRIDOWSKI, W.

Using artificial materials in sanitary technology. p. 42.

CAZ, WODA I TECHNIKA SANITARNA, (Polskie Zrzeszenie Gazownikow, Wodociagow-cow i Technikow Sanitarnych) Warszawa. Vol. 30, no. 2, Feb. 1956.

SOURCE: East European Accessions List (EFAL), Library of Congress, Vol. 5, no. 7, July 1956.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

KRUDOWSKI, M.

Preliminary conditions for the utilization of synthetic reterious (viridur) in plumbing.

p. 373 (Gaz, Woda I Technika Sanitarna. Vol. 31, no. 10, Oct. 1957. Warszawn, Foland)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2, February 1958

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2

KRUDRNA, Milan; UNZEITIG, Jan

Experience withdesigning the rubber tube pump. Chem prum 12 no.3:139-141 Mr 162.

1. Vyzkumny ustav syntetických pryskyric a laku, Pasklubice.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

TOTH, Marton; KRUDY, Geza

Effect of pelleted food on the weight increase and food conversion of chickens. Allattenyesztes 13 no.4:355-366 D 164.

1. Division of Feeding and Physiology of the Research Institute of Small Animal Breeding, Godollo. Submitted February 20, 1964.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

KRUDYSZ, Jan; KIECZENSKI, Aleksander

Effect of stimulation treatment on the elimination of neutral 17-ketosteroids in urine. Klin. ocana 27 no.3:247-254 1957.

1. Z Kliniki Ocznej A. M. we Wroclawiu. Kierownik: prof. W. J. Kapuscinski i z II Kliniki Chorob Wewnetrznych A. M. we Wroclawiu. Kierownik: prof. A. Falkiewicz.

(IRIDOCYCLITIS, urine in 17-ketosteroids during stimulation ther. with typhoid vaccine (Pol))

(STEROIDS, in urine

17-keto, during stimulation ther. of iridocyclitis with typhoid vaccine (Pol))

(TYPHOID FEVER vaccine, eff. on prinary 17-ketosteroids during stimulation ther. of iridocyclitis (Pol))

KAPUSCINSKI, Witold J.; ANDRZEJEWSKI, Peliks; BRODZIAK-KRZESIEKOWA, Kasimiera; oraz wspolpr.: DROZDOWSKA, S.; HANCZYC, P.; HUSZCZA, A.; ILCZYSZYNSKA, H.; CZEREK-JAGUCZANSKA, H.; KRUDYSZ, J.; PACYNSKA, J.; WOZNIAKOWA, I.

Problem of the evolution of some eye diseases in Poland according to material of the Wroclaw clinic. Klin.ocana 31 no.4:411-422 161.

1. Z Kliniki Ocznej AM we Wrocławiu Kierownik: prof. dr med. W. J. Kapuscinski Z Katedry Massyn Elektrycznych Politechniki Wrocławskiej Kierownik: prof. dr ins. F. Andrzejewski.

(OPHTHALMOLOGY)

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KHUDYSZ, Jan

Effect of preserved blood transfusion on the intraocular pressure. Postepy hig.med.dosw. 16 no.1:161-165 '62.

1. Z Kliniki Ocznej AM we Wroclawiu Kierownik: prof. dr. W.J.Kapuscinski. (BLOOD TRANSFUSION) (INTRAOCULAR PRESSURE)

KAPUSCINSKI, Witold Juliusz; KRUDYSZ, Jan; SKRZYPCZAK, Kazimierz

Ocular complication in methyl alcohol intoxication. Pol. tyg. lek. 17 no.14:511-516 2 Ap *62.

.1. Z Kliniki Ocsnej AM we Wroclaviu; kierownik: prof. dr W. J. Kapuscinski i z Oddzialu Ocznego Okregowego Szpitala Wojskowego we Wroclaviu; ordynator: lek. med. K. Skrzypezak.

(ALCOHOL METHYL toxicol) (EYE dis)

KAPUSCINSKI, Witold J.; KRUDYSZ, Jan; UHER, Miroslaw

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Further studies on the DIH preparation in the treatment of glaucoma. Klin. oczna 32 no.4:369-376 162.

1. Z Kliniki Chorob Oczu AM we Wroclawiu.Kierownik: prof. dr med. W.J. Kapuscinski.
(GLAUCOMA) (BARBITURATES)

KRUDYSZ, Jan

Accomodation spasm following tooth extraction and its treatment by blood transfusion. Klin. oczna 32 no.4:437-442 162.

1. Z Kliniki Ocznej AM we Wroclawiu. Kierownik: prof. dr med. W.J. Kapuscinski.

(ACCOMODATION) (TEETH EXTRACTION) (BLOOD TRANSFUSION)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

KAPUSCINSKI, Witold Juliusz; KRUDYSZ, Jan; UHEK, Miroslaw; SZYMANSKI, Jan

Use of ipronal in the treatment of glaucoma. Wiad. lek. 18 no.41321-323 15 F 165

1. Z Kliniki Ocznej Akademii Medycznej we Wroclaviu (Kierow-nik: prof. dr. W.J. Kapuscinski).

KRUDYSZ, Jan

Eye complications after smallpox vaccination during the smallpox epidemic in Wroclaw in 1963. Klin. oczna 35 no.1: 23-27 465.

1. Z Kliniki Ocznej Akademii Medycznej we Wroclaviu (Kierow-nik: prof. dr. med. W.J.Kapuscinski).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

KAPUSCINSKI, Witcold J., prof. dr. med.; OGIELSKA, Eugenia; RUDKOWSKA, Anna; KEUDYSZ, Jan; UHER, Mircelav; SIYMANSKI, Jan

Further research on the action of Ipronal in simple glaucoma, in relation to electroence; halography. Klin. oczna 35 no.2: 213-217 465.

1. Z Kliniki Ocznej (Kierownika prof. dr. med. W.J. Kapusoinski) i z Kliniki Neurologicznej Akademii Medycznej we Wroclawiu (Kierownika prof. dr. med. R. Arend).

KEUDYS!, Jan; BARON, Adam; OJEZYNSKI, Zdzisław; MADEJETEJEZ, Marian

Sercinginal examinations of the aqueous fluid in pregnant rabbits. Ginek. Pol. 36 no.8:921-922 Ag *65.

1. Z I Kliniki Poloznistwa i Chorob Kobiecych Akademii Medycznej we Wrocławiu (Kierownik: prof. dr. med. K. Nowosad) i z Kliniki Ocznej Akademii Medycznej we Wrocławiu (Kierownik: prof. dr. med. W. J. Kapuscinski).

S/194/61/000/007/051/079 D201/D305

AUTHOR:

Krug, G.A.

TITLE:

A semiconductor converter

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 28, abstract 7 E180 (Avtomatika, tele-

mekhanika i svyaz', 1960, no. 11.9)

TEXT: The series produced semiconductor converter type NNW-1 (PPSh-1) is designed for supplying the circuits of the change of direction of either direction traffic automatic block systems of dispatching centralization, and for the line circuits of semiautomatic traffic blocking. The converter has two N3B (PZV) transistors, power supply 12 V, consumes 0.25 A. The output voltage of the converter is 40 and 20 V at a current of 40 - 80 mA. The efficiency is 55%. Abstracter's note: Complete translation

1. Leningradskiy elektrotekhnicheskiy zavod.

Card 1/1

L_10779-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(1)/EWA(c)
ACC NR. AP5026215 ETC(m) JD/WW/HM SOURCE CODE: UR/0381/65/000/004/0049/0055

AUTHOR: Krug, G. A.

ORG: Scientific Research Institute of Bridges, LIIZhTa, Leningrad (Nauchno-issledo-vatel'skiy institut mostov LIIZhTa)

TITLE: Automation of the deciphering of the results of ultrasonic control

SOURCE: Defektoskopiya, no. 4, 1965, 49-55

TOPIC TAGS: ultrasonic inspection, automatic translation, digital decoder, computer control system, welding inspection

ABSTRACT: The author analyzes impulse ultrasonic defectoscopy for the possibility of employing electronic digital computers to process logically the information obtained during automatic ultrasonic control of welded joints. At the present time welds are mostly checked by manual defectoscopy, in which the operator carries out on-line recording and checking of the ultrasound tracings. The author examines the transmission of information in ultrasonic inspection from the two viewpoints of Shannon's information theory and random functions (A. M. Yaglom, I. M. Yglom, Veroyatnost' i informatsiya [Probability and Information], Moscow, Fizmatgiz, 1960). The defectoscopic characteristics (presence or absence of defects, their sizes, locations and disposition, influence of the physical properties of the product) of the inspected

Card 1/2

UDC: 620.179.16; 2:681.142.323

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ACC NR AP5026215

physical system may be regarded as random functions connected with decrease of the indeterminacy of the operator's knowledge of the state of the inspected system. In contrast, the passage of signals characterizing the defects along the channel "defectoscope--test object--defectoscope--decipher of the results of control" may be regarded as the transmission of information in a noisy circuit. The author correlates the process of defectoscopy with the scheme of information theory by deciding upon correspondences of the following type: (1) the source of information is the inspected object; (2) the transmitter-transducer is the piezoelectric converter; (3) the communication channel is the receiver; (4) the receiver is the system consisting of the sensor indicators and the decipher of the results of control; (5) the information received is the results of control which are recorded in a definite information carrier; (6) the source of noise is the source of interference or static. The author develops the logical algorithm for the evaluation of the quality (output information: flaw, indeterminate, no flaw) according to results of ultrasonic control (input information). He compares his scheme with the system of criteria employed to evaluate the welded joints and butts of a railroad bridge span (A. K. Gurvich, Ul'trazvukovaya defektoskopiya svarykh soyedineniy [Ultrasonic Defectoscopy of Welded Joints], Kiev, Ukrtekhizdat, 1963). The author thanks A. K. Gurvich for his development of the functional circuit for processing of impulse ultresonic defectoscopy. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13,14,09/

SUBM DATE: 26May65/

ORIG REF: 002/

OTH REF: 001

IVANOV, A.Z.; KRUG, G.K., kand. tekhn. nauk, detsent

Optimization of a complex technological process by the method of "evolutionary" planning of the experiment. Trudy MEI no.51: 17-48 '63. (MIRA 17:9)

BORODYUK, V.P.; KRUG, G.K., kand. tekim. nauk, dotsent

Some aspects of experimental design in collecting statistical materials. Trudy MEI no.51:115-175 '63. (MIRA 17:9)

KRUG, G.K.; SIRMAY, I.A.; TSVETAYEVA, I.L.

Use of a composite system in the study of complex industrial processes. Trudy MEI no.59:195-212 465.

(MIRA 18:10)

KRUG, C. K., and ALEKSAHDROVSKIY, H. M.

"Discussion. Some remarks on Ye. P. Popov's article entitled 'Taking into account the influence of nonlinearity during the calculation of tracking systems,' in Avtom. i telem., 14, No 6, 1953", Avtomatika i Telemekhanika, Vol 15, No 3,4,5, 1954

Abs

W-31148 7 Feb 55

KKUG G.K.
ALEKSANDROVSKIY, H.M.; KRUG, G.K.

Remarks on E.P. Popov's article "Monlinearity effects in the design of servomechanisms." (Avtom. i telem. 14 no.6 '53.) N.M.Aleksandrovskii G.K.Krug. Avtom. i telem. 15 no.4:361 J1-Ag. '54. (MLRA 7:11) (Servomechanisms) (Popov. E.P.)

SOV/124-57-7-7553

Translation from: Referativnyy zhurnal. Mckhanika, 1957, Nr 7, p 14 (USSR)

AUTHOR: Krug, G. K.

TITLE:

Some Problems Relating to the Influence Exerted by Nonlinearities on the Performance Characteristics of Servo-drive Equipment (Nekotoryye voprosy vliyaniya nelineynostey na kharakteristiki sledya-

shchego privoda)

PERIODICAL: Tr. 2-go Vses. soveshch. po teorii avtomat. regulirovaniya.

Vol I. Moscow-Leningrad, Izd-vo AN SSSR, 1955, pp 251-265

ABSTRACT: For the general case of the two-circuit network of a servo-drive

device the author investigates the location and influence within it of the nonlinearities associated with the characteristics of its amplifying system (the inactive zone, power limitations, hysteresis loop), the lost motion and dry friction within it, etc. Investigated also are the stability of a self-sustained hunting mode and the effect of nonlinearities on the dynamic error in a servomechanism having a sinusoidally acting input axis. A method is cited for determining the degree of

overcontrol.

Card 1/1

Yu. A. Mitropol'skiy

"大百年"的基础中的特殊的特殊的重要的

Subject

USSR/WATHEMATICS/Differential equations CARD 1/1 PG - 129

AUTHOR KRUG E.K., MININA O.M.

TITLE

On peculiarities of the investigation of the dynamic properties

of non-linear systems which contain an unstable term.

PERIODICAL

Avtomat. Telemech. 16, 536-541 (1955)

reviewed 7/1956

The system consists of one stable and one unstable term, both of first order, and of one non-linear term of Z-shaped characteristic. The corresponding differential equations are discussed in the phase plane; the phase curves consist of parts of hyperbolas.— The assertion of the authors, that the method of the "harmonic balance" fails here, seems to be not proved; for the comparison only the first approximation of the hypothesis of the harmonic balance is used, while for an assertion of stability at least the second approximation is necessary.

8(2)

PHASE I BOOK EXPLOITATION

SOV/2038

Krug, G.K., Docent

Raschet i proyektirovaniye sledyashchikh sistem (Calculation and Design of Servo Systems) Moscow, 1958. 174 p. 1,000 copies printed.

Sponsoring Agency: Moscow, Energeticheskiy institut. Kafedra avtomatiki, telemekhaniki i matematicheskikh mashin.

Assistant Ed.: A.V. Baltrushevich

PURPOSE: The book is approved by the Education Board of MEI as a textbook for students who have taken a course in the theory of automatic control and who are familiar with the basic elements of servo systems, such as amplifiers, motors, and measuring devices.

COVERAGE: The author attempts to systematize the basic problems in the calculation and design of servo systems. He discusses low - and medium-power systems with proportional control. He also describes methods of testing servo systems and their components Card 1/4

Calculation and Design (Cont.)	SOV/2038
and discusses means of stabilizing system operation author thanks Professor L.S. Gol'dfarb, Docent A. Lecturer A.V. Baltrushevich, Docent V.L. Shekshne N.M. Aleksandrovskiy, and Docent L.I. Tkachev for the manuscript. There are 23 references: 21 Sovie (including 1 translation), and 2 English.	.V. Lebedev, Docent
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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710014-2"

AUTHOR: Krug, German Karlovich, Candidate of 50V/. **161**-58-1-24/33

Technical Sciences, Docent at the Chair of Automation, Remote Control Engineering and Mathematical Machines at the

Moscow Institute of Power Engineering

TITLE: Solution of Two Non-Linear Problems of a Servo System With

Proportional Control (Resheniye dvukh nelineynykh zadach dlya

sledyashchey sistemy s proportsional nym upravleniyem)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Elektromekhanika i avtomatika,

1958, Nr 1, pp. 188 - 198 (USSR)

ABSTRACT: The most common typical non-linear problems are presented .

They are solved by means of a mathematical machine with the desired accuracy. The values of all factors involved are varied.

The solution can be given in the form of nomograms and of

tables. First the curve of the transient process is determined, taking into account the saturation of the amplifier. The

power limit of the amplifier does not only limit the torque developed by the motor, but also its speed (d.c. motors being

considered). The non-linear equation for free oscillations in a servo system with a power limit of the amplifier takes

Card 1/3 the form of (3). It is analyzed with the help of the phase

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Solution of Two Non-Linear Problems of a Servo System SOV/ 161-58-1-24/33 With Proportional Control

plane. The equations (5) for the phase trajectories are deduced. These trajectories yield the following information: 1) Two separating lines are found on the phase surface, dividing it into two domains with trajectories of different type. 2) The transient process will converge independently of the initial conditions, if the system is stable in a linear investigation. 3) The transient process keeps within the range of linear operation of the amplifier, if the relative attenuation decrement d \geqslant 0,285. In order to obtain the true curve of the transient process in an absolute scale the time scale and the angle error scale must be transformed. In the next section the limit velocity in an intermittent following caused by the forces of dry friction at the control shaft is determined. Under certain conditions, at small "creeping" angular velocities of the master shaft the motion of the control shaft attains a jump-like character. When the master shaft velocity is increased above a certain critical value, the motion of the control shaft becomes continuous. The irregularity of motion is caused by the moment of dry friction. As can be seen from the diagram, the rest friction moment

Card 2/3

。中华生活的中央经验,**《日晚代》**《新年月卷记》(1984年)(1984年)(1984年)

Solution of Two Non-Linear Problems of a Servo System SOV/161 -58-1-24/33 With Proportional Control

exceeds the motion friction moment. The computation of the limit velocity in an irregular following and its successive following order, respectively, is given. There are 11 figures and 3 references, 2 of which are Soviet.

ASSOCIATION:

Kafedra avtomatiki, telemekhaniki i matematicheskikh mashin Moskovskogo energeticheskogo instituta (The Chair of Automation, Remote Control and Mathematical

Machines at the Moscow Institute of Power Engineering)

SUBMITTED:

January 25, 1958

Card 3/3

KRUG, German Karlovich; KRUG, Yelena Karlovna; PASTERNAK, Ye.B., red.; LARIONOV, G.Ye., tekhn.red.

[Electric compensation elements in automatic regulation and control circuits] Elektricheskie korrektiruiushchie elementy v skhomakh avtomaticheskogo kontrolis i regulirovaniia. Moskva. Gos.energ.isd-vo. 1959. 83 p. (Biblioteka po avtomatika, no.10) (MIRA 13:3)

(Automatic control)

KRUG, G. K.

"A Learning Automatic Device With Extrapolation of the Control Program."

Report submitted for the Symposium on Principles in the Design of Self-Learning Systems, Kiev Ukr SSR, 5-9 May 1961

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NETUSHIL, A.V., doktor tekhn.nauk, profi; KRUG, G.K., kand.tekhn.nauk, dotsent; IETSKIY, E.K., starshiy inzhener

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